

RECEIVED
JUN 05 2002
TECH CENTER 1600/2900

RECEIVED

MAY 23 2002

TECH CENTER 1600/2900



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#9/Jan
07.19.02

Applicant(s): Shi-You Ding et al.)
Serial No.: 09/917,378) Group Art Unit: 1645
Filed: July 28, 2001) Examiner: Not Yet Accorded
Title: Thermal Tolerant Mennanase) Atty Dkt No. : NREL 01-35
from *Acidothermus cellulolyticus*)

TECH CENTER 1600/2900

JUN 05 2002

RECEIVED

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.56 AND 1.97

Honorable Assistant
Commissioner for Patents
Washington, DC 20231

Dear Sir:

It is respectfully requested that the citations listed below be considered by the U.S. Patent and Trademark Office and be made of official record in the above-identified application.

In the opinion of the undersigned, the below-listed citations represent the closest art known to the undersigned during the preparation of the above-identified application. These citations may be material to the examination of the subject application and are therefore submitted in compliance with a duty of disclosure defined in 37 CFR §§ 1.56 and 1.97.

CITED PATENTS

U.S. Patent 6,060,299

Sreckrishna et al.

May 9, 2000

CITED PUBLICATIONS

Sunna et al., "A Gene Encoding a Novel Multidomain β -1, 4-Mannanase from *Caldibacillus cellulovorans* and Action of the Recombinant Enzyme on Kraft Pulp," Applied and Environmental Microbiology, Vol. 66, No. 2, Feb. 2000, pp. 664-670, XP002192691.

Seikagaku Kogyo Co Ltd., "New endo- β -mannosidases isolated from Liliaceae plants-useful for analysis of sugar chain structure," Derwent Publications Ltd., Section Ch, Week 200022, London, GB, Class B04, AN 2000-249670, XP002192693.

Tucker, M. et al., "Ultra-Thermostable Cellulases from Acidothermus: Comparison of Temperature Optima with Previously Reported Cellulases," Bio/Technology, Vol. 7, August 1989, pp. 817-820.

Thomas, S.R. et al., "Gene Coding for the E1 Endoglucanase," PCT International Application No. PCT/US95/08868, 1 February 1996, WO 96/2551A1.

Bylina, E.J. et al., "Glycosidase Enzymes," PCT International Application No. PCT/US97/00092, 17 July 1997, WO 97/25417

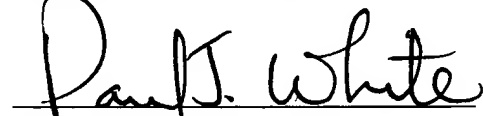
PCT International Search Report, PCT/US01/23819, 28 July 2001.

In regard to the referenced application which is submitted herewith, Applicant submits the enclosed form PTO-1449 with references that may be relevant to the patentability of the above -identified application.

This disclosure statement under 37 CFR §§ 1.56 and 1.97 is not to be construed to the effect that no other material information as defined by 37 CFR § 1.56(c) exist, or that these citations constitute prior art under 37 CFR § 1.56(c) exists, or that the citations constitute prior art under 35 U.S.C. § 102 and 103.

Dated: May 17 2002.

Respectfully submitted,

A handwritten signature in cursive script that reads "Paul J. White". The signature is written in dark ink and is positioned above a horizontal line.

Paul J. White, Reg. No. 30,436
Attorney for Applicants

National Renewable Energy Laboratory
1617 Cole Boulevard
Golden, CO 80401
303/384-7575



RECEIVED

JUN 05 2002

TECH CENTER 1600/2900

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE RECEIVED

MAY 23 2002

Applicant(s): Shi-You Ding et al.

Serial No.: ~~09/9317,378~~

Filing Date: July 28, 2001

Title: Thermal Tolerant Mennanase *Acidothermus*
cellulolyticus

Art Unit: 1645

Examiner: Not Yet Accorded

Atty. Dkt. No.: NREL 01-35

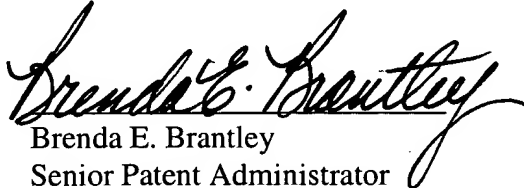
TECH CENTER 1600/2900

CERTIFICATE OF MAILING UNDER 37 CFR § 1.8

I hereby certify that the following attached items:

- (1) Information Disclosure Statement Under 37 CFR §§ 1.56 and 1.97 [3 pages]
- (2) Cited references
- (3) PTO Form 1449 [2 pages]
- (4) Postcard Receipt

are being deposited in the United States Postal Service as first class mail, postage pre-paid, in an envelope addressed to: Assistant Commissioner for Patents, Washington DC 20231 on this 17th day of May 2002.


Brenda E. Brantley
Senior Patent Administrator

National Renewable Energy Laboratory
1617 Cole Boulevard
Golden, CO 80401
303/384-7572
303/384-4799 (fax)